

## CLAIMS

What is claimed is:

- 5                   1.     A film comprising:  
                    a biodegradable polymer; and  
                    a water soluble polymer,  
                    wherein the film is breathable and has a water vapor  
                    transmission rate greater than about 500 g/m<sup>2</sup>/24hrs.
- 10                  2.     The film of Claim 1, wherein the biodegradable  
                    polymer is an aliphatic polyester.
- 15                  3.     The film of Claim 1, wherein the biodegradable  
                    polymer is selected from the group consisting of polycaprolactone,  
                    polybutylene succinate, poly(butylene succinate-adipate),  
                    polylactic acid, terpolymers of terephthalic acid, adipic acid, and  
                    1,4-butanediol, and copolymers and mixtures thereof.
- 20                  4.     The film of Claim 1, wherein the water soluble  
                    polymer is selected from the group consisting of polyethylene  
                    oxide, polyethylene glycol, polyvinyl alcohol, and copolymers and  
                    mixtures thereof.
- 25                  5.     The film of Claim 1, wherein the water soluble  
                    polymer is polyethylene oxide, polyethylene glycol or a copolymer  
                    thereof.
- 30                  6.     The film of Claim 1 having a water vapor  
                    transmission rate greater than about 1000 g/m<sup>2</sup>/24hrs.
7.     The film of Claim 1 having a water vapor  
                    transmission rate greater than about 1500 g/m<sup>2</sup>/24 hrs
- 35                  8.     The film of Claim 1, wherein the film includes  
                    from about 30% to about 95% biodegradable polymer by weight of  
                    the film.

9. The film of Claim 1, wherein the film includes from about 50% to about 75% biodegradable polymer by weight of the film.

5 10. The film of Claim 1, wherein the film includes from about 5% to about 70% water soluble polymer by weight of the film.

10 11. The film of Claim 1, wherein the film includes from about 15% to about 50% water soluble polymer by weight of the film.

12. The film of Claim 1 having an elongation at break of greater than about 350%.

15 13. The film of Claim 1 having an elongation at break of greater than about 450%.

20 14. The film of Claim 1 having a thickness of from about 0.01 to about 5 mils.

15. The film of Claim 1 having a thickness of from about 0.01 to about 2 mils.

25 16. The film of Claim 1, wherein the biodegradable polymer is polycaprolactone and the water soluble polymer is polyethylene oxide.

30 17. The film of Claim 1, wherein the film is a precursor film.

18. The film of Claim 1, wherein the film is biodegradable.

35 19. The film of Claim 18 having a water vapor transmission rate of greater than about 2500 g/m<sup>2</sup>/24hrs.

20. The film of Claim 18 having a water vapor transmission rate of greater than about 3000 g/m<sup>2</sup>/24hrs.

21. The film of Claim 18 having a water vapor transmission rate of greater than about 3500 g/m<sup>2</sup>/24hrs.

5 22. The film of Claim 18 having an elongation at break of greater than about 100%.

10 23. The film of Claim 18 having an elongation at break of greater than about 200%.

24. The film of Claim 18, wherein the film includes from about 1% to about 50% water soluble polymer by weight of the film.

15 25. The film of Claim 18, wherein the film includes from about 5% to about 30% water soluble polymer by weight of the film.

20 26. The film of Claim 18, wherein the film includes from about 50% to about 99% biodegradable polymer by weight of the film.

25 27. The film of Claim 18, wherein the film includes from about 70% to about 95% biodegradable polymer by weight of the film.

28. The film of Claim 18 having a thickness of from about 0.01 to about 5 mils.

30 29. The film of Claim 18 having a thickness of from about 0.01 to about 5 mils.

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